# **Special Issue**

## Organelle Structure and Metabolism in Cancer Cells

## Message from the Guest Editors

An altered cellular metabolism has been recognized as one of the hallmarks of cancer. Cancer cells are known to divert flux through their metabolic pathways (glycolysis, pentose phosphate pathway, Krebs cycle, etc.) in order to increase macromolecule and organelle biosynthesis and maintain active cellular proliferation. Since metabolic alterations are closely linked to changes in organelle structure, both processes have been implicated in cellular changes in cancer initiation and progression, including oncogene-mediated transformation, epithelial-to-mesenchymal transition, cellular migration and invasion, cancer stem cell maintenance, and cellular interactions with the tumor microenvironment. In addition, metabolic alterations induce changes in intermediary metabolites, with some having oncogenic roles (succinate, fumarate, 2hydroxyalutarate, etc.) that also contribute to the maintenance of metabolic changes in cancer cells. This Special Issue welcomes submissions from diverse areas of cancer biology concerned with cancer cell alterations in organelle structure and metabolism, with the purpose of stimulating intriguing perspectives in the discipline.

#### **Guest Editors**

Dr. Paola Maycotte

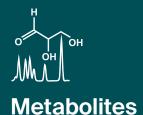
Centro de Investigación Biomédica de Oriente, Instituto Mexicano del Seguro Social, Puebla 74360, Mexico

Dr. Álvaro Marín-Hernández

Departamento de Bioquímica, Instituto Nacional de Cardiología, Mexico City 14080, Mexico

## Deadline for manuscript submissions

closed (15 December 2023)



an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



mdpi.com/si/169078

Metabolites
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metabolites@mdpi.com

mdpi.com/journal/ metabolites





## Metabolites

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 6.9 Indexed in PubMed



## **About the Journal**

## Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

### Editor-in-Chief

#### Dr. Amedeo Lonardo

Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

### **Author Benefits**

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q2 (Endocrinology, Diabetes and Metabolism)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).

